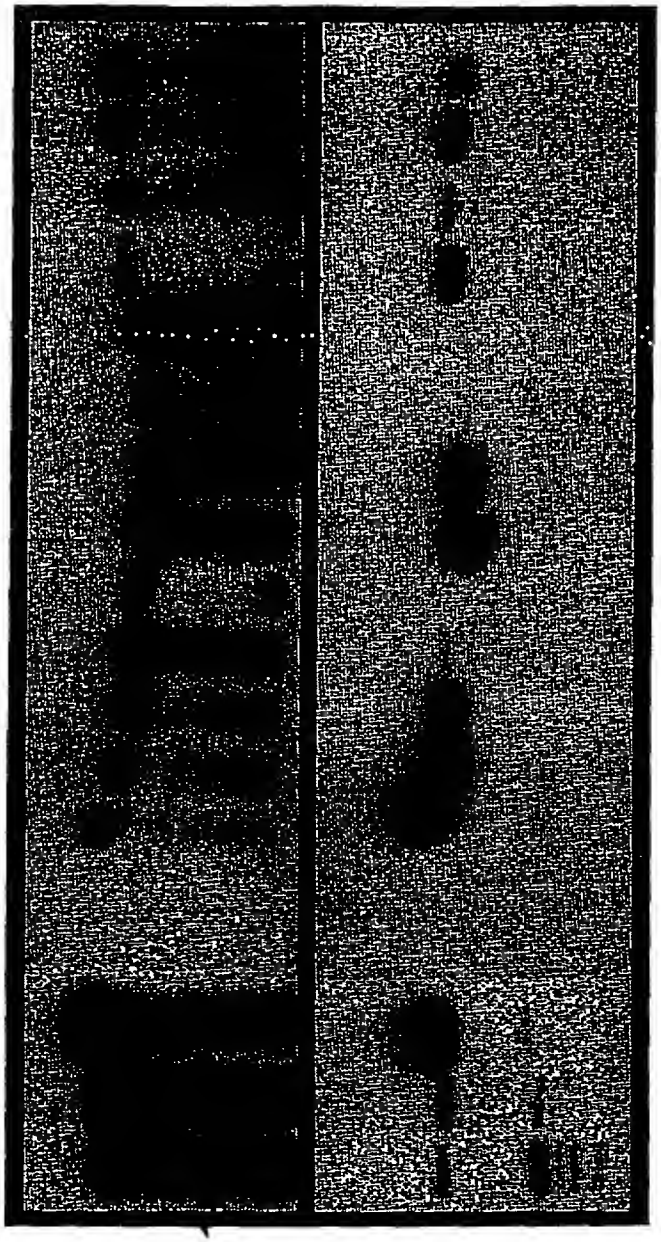
3G-17-21
17-21
3G-17-21(A21L)
17-21(A21L)
3G-1-40
3G-1-42
1-29
3G-1-29
10-25
3G-10-25
16-30
3G-16-30
Fc
Mock
Fc
1-40
1-42
Cells
Medium

FIGURE 1

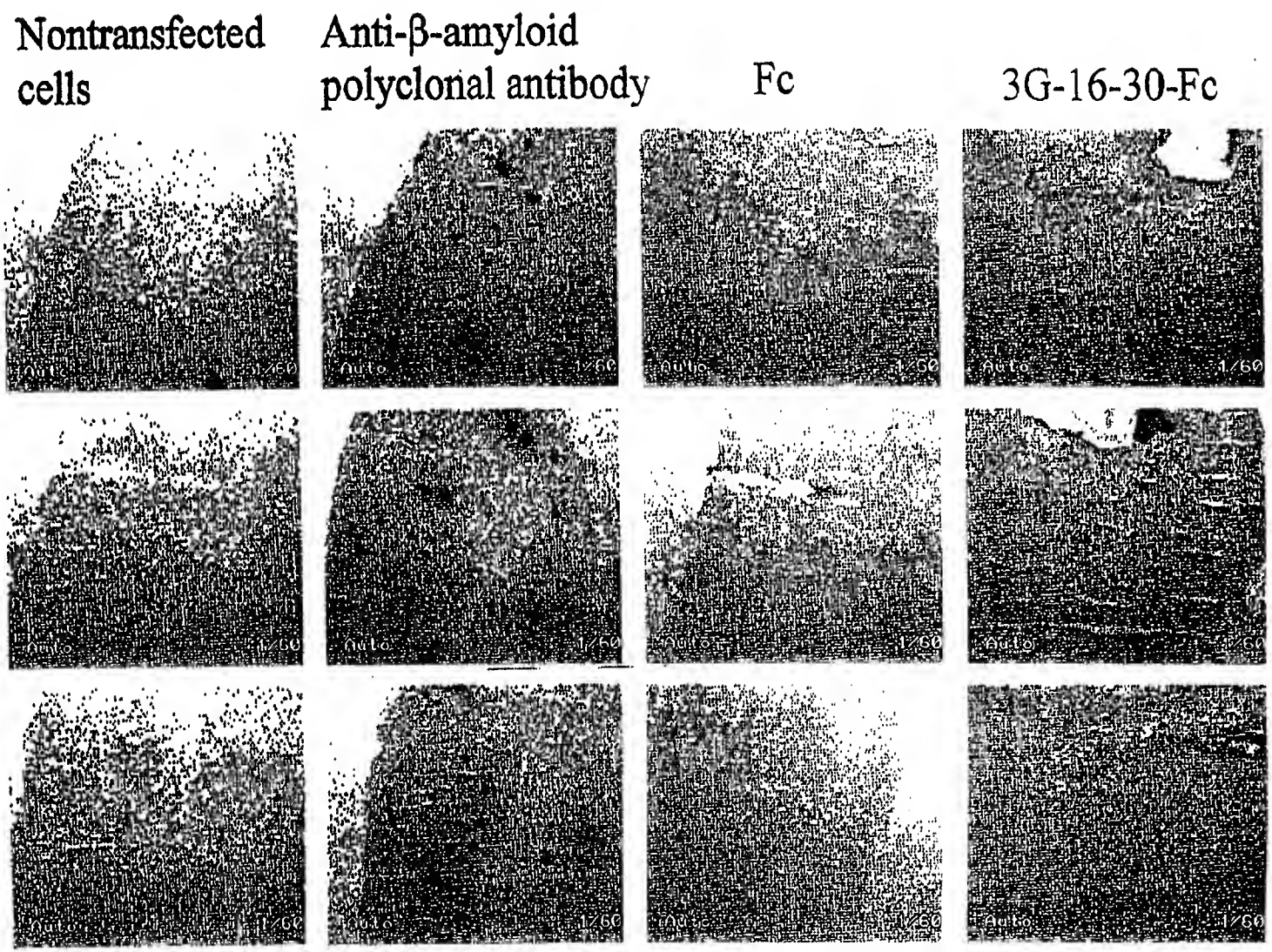

FIGURE 2

BssHII-Spe-BamHI converter:

```
                BssHII          SpeI  BamHI
DI215            CGCGCTTCAGAAGAACTAGTG
                      GAAGTCTTCTTGATCACCTAG DI216
           A  R  F  R  R  T  S  A  S
```

FIGURE 3

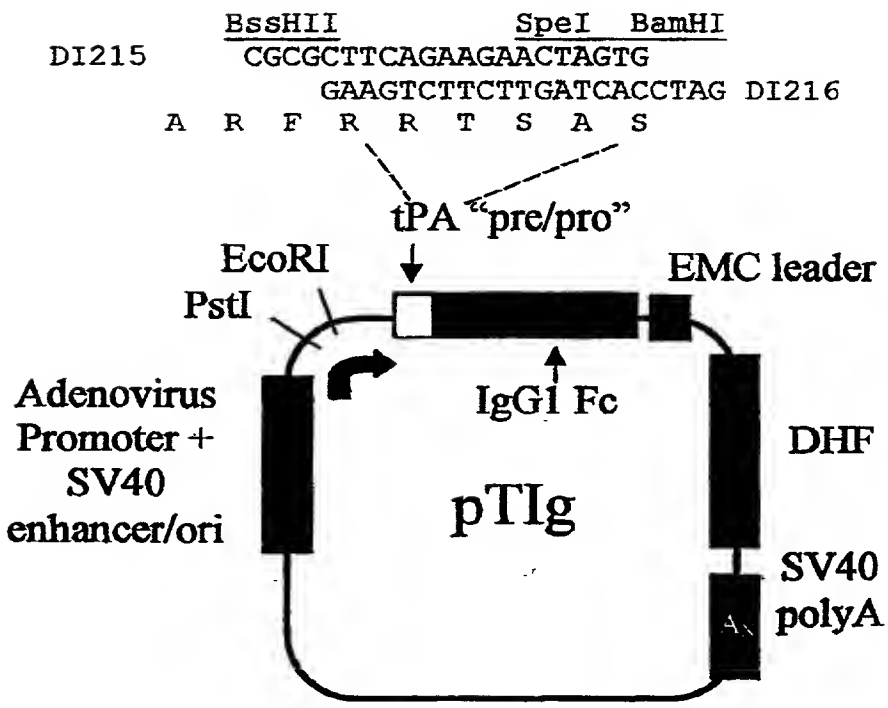

FIGURE 4


DI217
TTAGCGCGCTTCAGAAGAGACGCAGAATTCCGT
DI217-3G
TTAGCGCGCTTCAGAAGAGGCGGTGGTGACGCAGAATTCCGT
Triple gly
CTGCGTCTTAAGGCAGTACTGAGGCCTATGCTTCACGTG
DI218
DI219
GGATACGAAGTGCACCACCAAAAGCTTGTATTCTTCGCA
GAACATAAGAAGCGTCTTCTGCAGCCTAGGTTGTTTCCAC
DI220
DI221
GGATCCAACAAAGGTGCCATAATAGGCCTTATGGTAGGT
CCGGAATACCATCCACCTCATCACTGATCAGGT
DI222-40
CCGGAATACCATCCACCTCATCACTATCGTTGATCAGGT
DI222-4

FIGURE 5

```
1   2   3   4   5   6   7   8   9   10  11  12  13  14  15  16  17  18  19  20  21
D   A   E   F   R   H   D   S   G   Y   E   V   H   H   Q   K   L   V   F   F   A
GACGCAGAATTCCGTCATGACTCCGGATACGAAGTGCACCACCAAAAGCTTGTATTCTTCGCA
        EcoRI     BspHI   BspEI          ApaLI          HinDIII

22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42
E   D   V   G   S   N   K   G   A   I   I   G   L   M   V   G   G   V   V   I   A
GAAGACGTCGGATCCAACAAAGGTGCCATAATAGGCCTTATGGTAGGTGGAGTAGTGATAGCA
     AatII BamHI                       StuI
```

FIGURE 6

β-amyloid fragments made as IgG1 F_c fusions:

- LVFFA
- LVFFL
- 16-30
- 10-25
- 1-29
- 1-40
- 1-42

All cloned N-terminal or following triple gly

- also control construct of IgG1 F_c (no β-amyloid sequence)

- Overlapping complimentary oligonucleotides for pentapeptides:

GGGLVFFA:

```
          5′
DI223     CGCGCTTCAGAAGAGGCGGTGGTCTTGTATTCTTCGCAA
              GAAGTCTTCTCCGCCACCAGAACATAAGAAGCGTTGATC DI224
          BssHII                                  SpeI 5′
```

LVFFA:

```
DI225     CGCGCTTCAGAAGACTTGTATTCTTCGCAA
              GAAGTCTTCTGAACATAAGAAGCGTTGATC DI226
```

GGGLVFFL:

```
DI227      CGCGCTTCAGAAGAGGCGGTGGTCTTGTATTCTTCCTTA
               GAAGTCTTCTCCGCCACCAGAACATAAGAAGGAATGATC DI228
```

FIGURE 7A

LVFFL:

DI229 CGCGCTTCAGAAGACTTGTATTCTTCCTTA
GAAGTCTTCTGAACATAAGAAGGAATGATC DI230

- PCR primers for longer fragments

β-amyloid 1-29 oligos

For 5′ use oligos 217 and 217-3G

DI-231 TGGACTAGTACCTTTGTTGGATCCGAC

β-amyloid 10-25 oligos

DI-232 TTAGCGCGCTTCAGAAGATACGAAGTGCACCACCAA

DI-232-3G
TTAGCGCGCTTCAGAAGAGGCGGTGGTTACGAAGTGCACCACCAA

DI-233 TGGACTAGTTCCGACGTCTTCTGCGAA

β-amyloid 16-30 oligos

DI-234 TTAGCGCGCTTCAGAAGAAAGCTTGTATTCTTCGCA

DI-234-3G
TTAGCGCGCTTCAGAAGAGGCGGTGGTAAGCTTGTATTCTTCGCA

DI-235 TGGACTAGTGGCACCTTTGTTGGATCC

FIGURE 7B

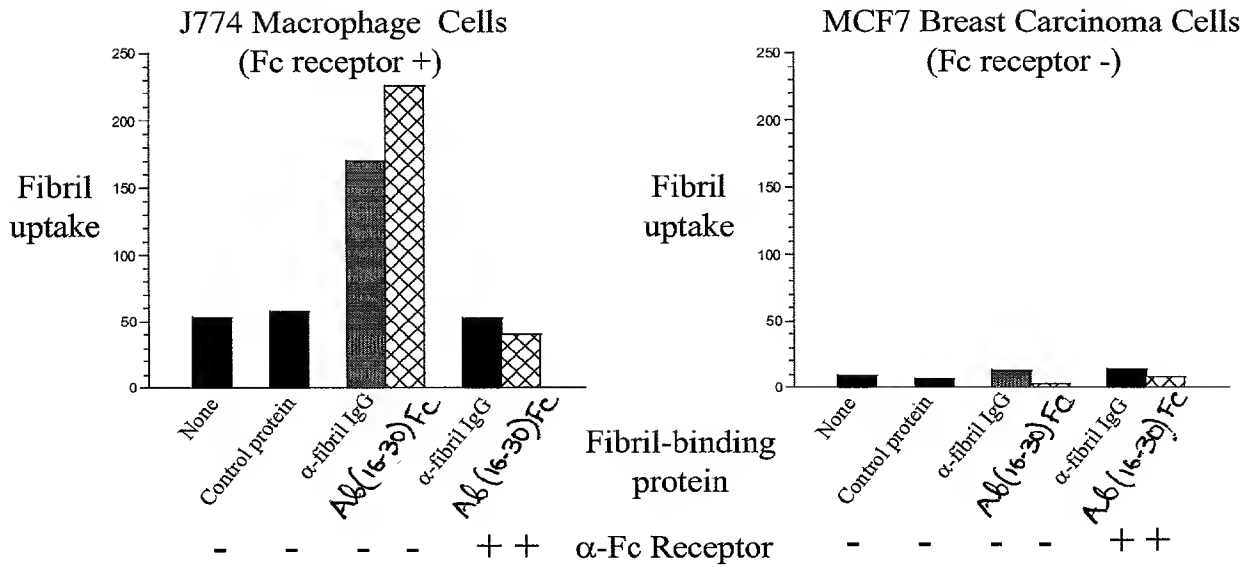
J774 Macrophage Cells
(Fc receptor +)
MCF7 Breast Carcinoma Cells
(Fc receptor -)
Fibril uptake
250
200
150
100
50
0
None
Control protein
α-fibril IgG
Aβ(16-30)Fc
Fibril-binding protein
α-Fc Receptor
- - - - + +

FIGURE 8

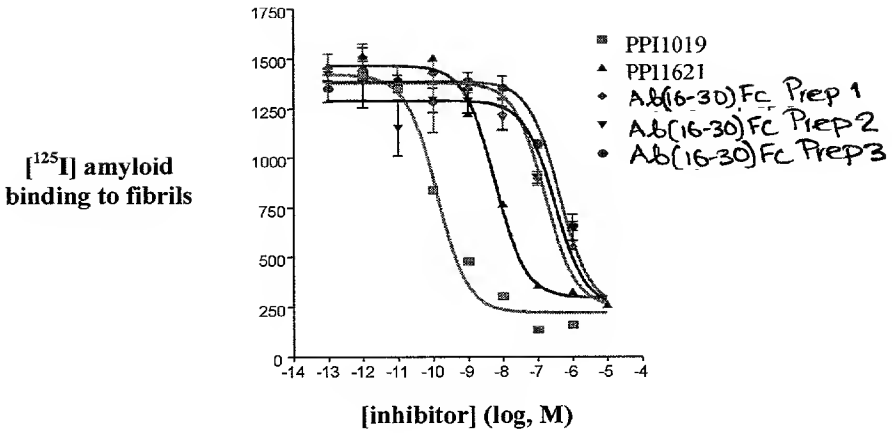

FIGURE 9

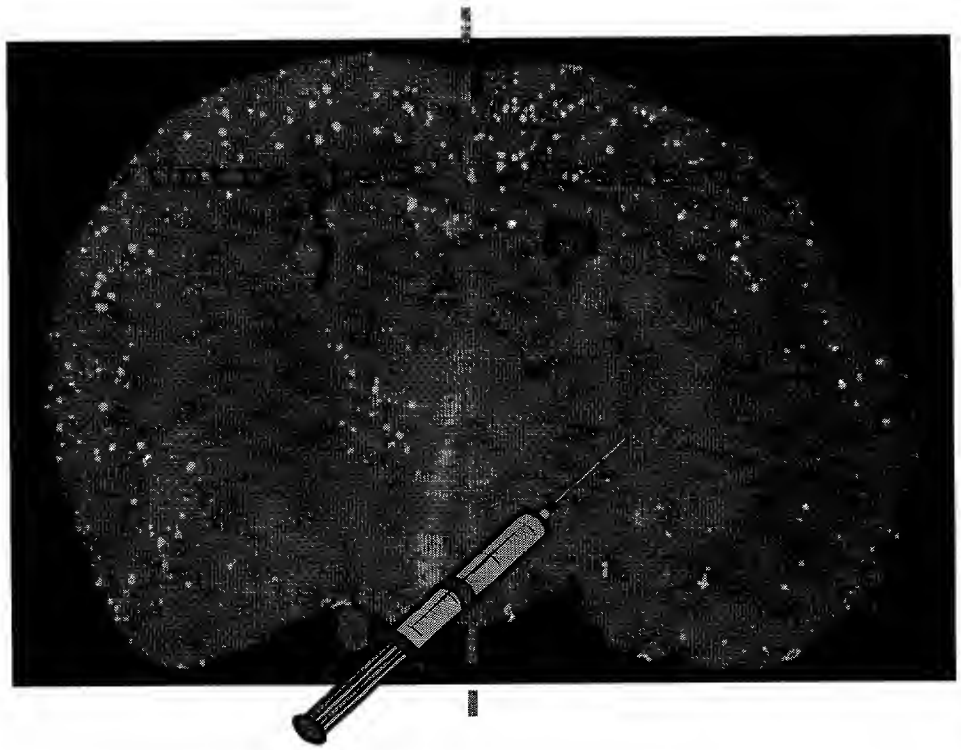

FIGURE10

ATGGATGCAATGAAGAGAGGGCTCTGCTGTGTGCTGCTGCTGTGTGGAGC
AGTCTTCGTTAAGCTTGTATTCTTCGCAGAAGACGTCGGATCGAACAAAG
GTGCCGAGCCCAAATCTTGTGACAAAACTCACACATGCCCACCGTGCCCA
GCACCTGAACTCCTGGGGGGGACCGTCAGTCTTCCTCTTCCCCCCAAAACCC
AAGGACACCCTCATGATATCCCGGACCCCTGAGGTCACATGCGTGGTGGT
GGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTGGACG
GCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAA
CAGCACGTACCGGGTGGTCAGCGTCCTCACCGTCCTGCACCAGGACTGGC
TGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCCAGCC
CCCATCGAGAAAACCATCTCCAAAGCCAAAGGGCAGCCCCGAGAACCAC
AGGTGTACACCCTGCCCCCATCCCGGGATGAGCTGACCAAGAACCAGGTC
AGCCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATCGCCGTGGA
GTGGGAGAGCAATGGGCAGCCGGAGAACAACTACAAGACCACGCCTCCC
GTGCTGGACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCACCGTGGAC
AAGAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGA
GGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTA
AATGA

FIGURE 11

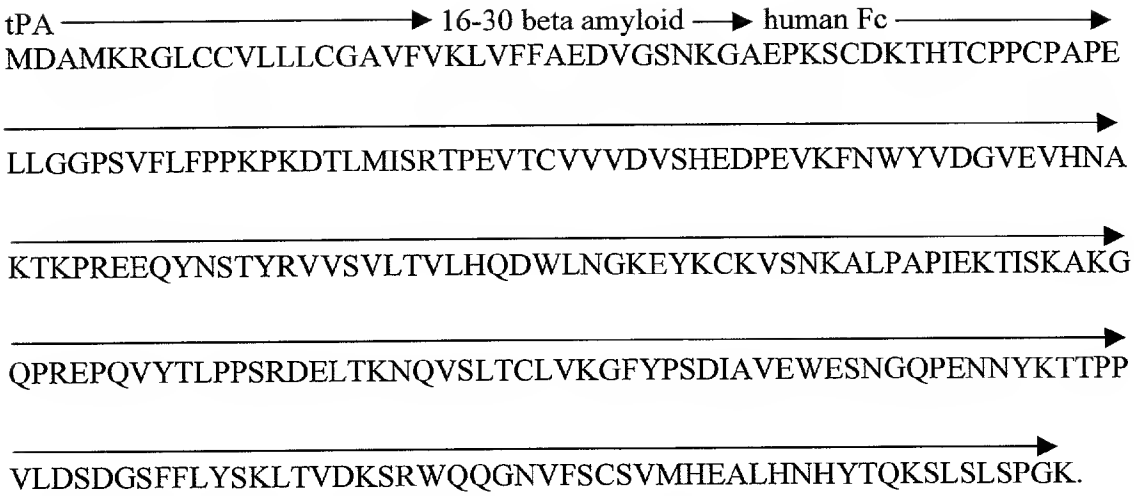
tPA
16-30 beta amyloid
human Fc
MDAMKRGLCCVLLLCGAVFVKLVFFAEDVGSNKGAEPKSCDKTHTCPPCPAPE
LLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNA
KTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKG
QPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPP
VLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK.

FIGURE 12